

DIMENSIONAL DRAWING

All dimensions in millimeters

GENERAL SPECIFICATIONS

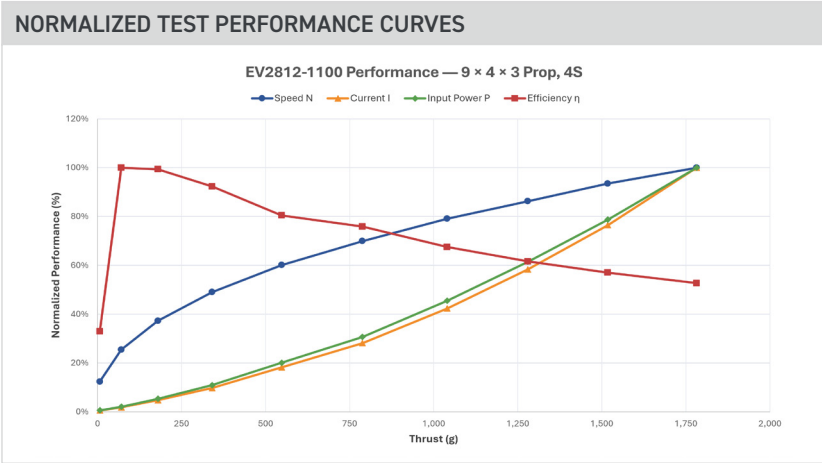
MOTOR

Stator Size: 2812
KV Rating: 1100 KV
Configuration: 12N14P
Dimensions: 33.4 × 40 mm
Weight: 78.9 g
Shaft Diameter: 5 mm
Lead-Wire Length: 250 mm
Wire Gauge: 18 AWG (1mm²)

ELECTRICAL

Test Battery Configuration: 4S LiPo
Maximum Rated Speed: 29,100 RPM
Maximum Tested Speed: 13,114 RPM
Idle Current (20 V): 1.4 A
Peak Current: 55 A
Winding Resistance: 53.4 mΩ

PROPELLER PERFORMANCE DATA						
PROPELLER: 9 × 4 × 3 BATTERY: 4S LiPo						
Throttle (%)	Voltage (V)	Current (A)	Speed (RPM)	Thrust (g)	Input Power (W)	Efficiency (g/W)
10	16.79	0.17	1,629	7	2.9	2.45
20	16.78	0.57	3,343	71	9.6	7.42
30	16.72	1.46	4,886	180	24.4	7.37
40	16.64	2.99	6,429	341	49.8	6.85
50	16.49	5.57	7,886	548	91.8	5.97
60	16.28	8.60	9,171	788	140.0	5.63
70	16.05	12.93	10,371	1040	207.5	5.01
80	15.72	17.83	11,314	1,280	280.3	4.57
90	15.36	23.37	12,257	1,518	359.0	4.23
100	14.92	30.56	13,114	1,782	456.0	3.91



CURVE INTERPRETATION

Curves are normalized representations of measured test data for visual comparison. Refer to the performance table for actual measured values.

ENGINEERING NOTES

Performance data is based on the bench-test conditions.

Actual performance may vary with installation, airflow, battery condition, ESC setup, and propeller variation.

Validate final selections using application-specific testing.

CONTACT

Product and application assistance:

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